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APPLICATION NO. FILE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/600,597 06/23/2003		Teppei Sakaguchi	740819-1000	5494			
22204	22204 7590 01/18/2006				EXAMINER		
NIXON PE	ABODY.	, LLP	CASTELLANO, STEPHEN J				
401 9TH ST		•					
SUITE 900	•		ART UNIT	PAPER NUMBER			
WASHINGT	ON DC	20004-2128	2727				

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)					
Office Action Summary			10/600,597	,	SAKAGUCHI ET AL.				
			Examiner		Art Unit				
			Stephen J.		3727				
Period fo	The MAILING DATE of this commu r Reply	nication app	ears on the	cover sheet with the c	orrespondence ad	ldress			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this come period for reply is specified above, the maximum so re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period w y will, by statute,	ATE OF THI 36(a). In no even rill apply and will cause the applic	S COMMUNICATION t, however, may a reply be time expire SIX (6) MONTHS from alion to become ABANDONEI	l. ely filed the mailing date of this co O (35 U.S.C. § 133).				
Status									
1)[🛛	Responsive to communication(s) file	ed on <i>10-12</i>	2-05.						
•	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
′=									
-,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂	Claim(s) 1-6 is/are pending in the application.								
	4a) Of the above claim(s) <u>5 and 6</u> is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
6)🖾	Claim(s) <u>1-4</u> is/are rejected.								
-	Claim(s) is/are objected to.								
Applicati	on Papers					٠			
9) 🗌 :	The specification is objected to by the	ne Examiner	r.						
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	<del>- ' '</del>		•						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	(a)								
_	e of References Cited (PTO-892)			4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (		Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 6/23/03.  5) Notice of Informal Patent Application (PTO-152)  6) Other:									

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Applicant's election of Group II, claims 1-4 in the reply filed on October 12, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 5 and 6 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on October 12, 2005.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Crocker et al. (Crocker).

Crocker discloses a digester for pulp that defines a high-pressure tank with a metallic tank body made of a shell a, a head i<sup>2</sup>, a sleeve n and a cover t, all made of metal such as steel iron or other strong metal and all lined with a layer of lead. The tank body has a cylindrical gas discharge section (sleeve n), a cylindrical middle section (shell a) and a dome section (head i<sup>2</sup>). A cylindrical metallic reinforcing collar (short flanged tube k) is engaged integrally on the exterior of the tank body between the discharge section and the dome section as is best shown in Fig. 5 (see page 2, lines 61-81 for discussion of the clamping attachment of the sleeve). The reinforcing collar includes an extension (the bottom outwardly extending portion of the flanged tube k), the back of the extension is formed with an annular boss (the downwardly extending

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portion which extends in touching relationship to the sleeve n, the head  $i^2$  and the head lining m), the boss fits within an annular fitting recess as formed by the gap between the sleeve n and the head  $i^2$  and the bottom of the recess is formed by the head lining m.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crocker.

Re claim 3, Crocker discloses the invention except for the steel alloy of the collar. The material of the collar is not specifically mentioned. The cross-hatching used for the collar is the same as the steel alloy parts of the shell a and the head i<sup>2</sup>. It would have been obvious to make the collar of steel alloy as this metal provides both strength and is compatible to the metals of the shell a and head i<sup>2</sup>. This would sufficiently reinforce the sleeve n and the head i<sup>2</sup> while being chemically compatible with the sleeve n and the head i<sup>2</sup>.

Re claim 4, Crocker discloses the invention except for the aluminum alloy of the tank body. Official notice is taken that aluminum alloy is well known for its strength, lightness in weight and non-corrosive nature. It would have been obvious to modify the tank body material, the material of the shell a, to be an aluminum alloy in view of the "or other strong metal" reference on page 1, line 49 to provide strength, lightweight and non-corrosive properties.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Castellano whose telephone number is 571-272-4535. The examiner can normally be reached on M-Th 6:30-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Newhouse can be reached on 571-272-4544. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen J. Castellano Primary Examiner Art Unit 3727